**Unit 9 Map (Cell Signaling)**

Ms. Ottolini, AP Biology

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| **Topic** | **Learning Target** | **DBA Score** (%) | **Test Score** (%) |
| 1. The Basics of Cell Signaling | A. You will be able to describe what happens in each of the three main steps of cell signaling—reception, transduction, and response—and provide examples of each. |  |  |
| B. You will be able to compare/contrast cell signaling between cells that are connected, cells that are separated by a small distance, and cells that are separated by a large distance. |
| C. You will be able to compare the purpose of cell signaling in unicellular vs. multicellular organisms and provide examples of each. |
| D. You will be able to predict the effects of changes in cell signaling pathways. |
| 2. Fast Signals across Small Distances – The Nervous System | E. You will be able to identify the main parts of the human nervous system. |  |  |
| F. You will be able to outline the steps involved in a reflex arc. |
| G. You will be able to identify the parts of a neuron and their functions. |
| H. You will be able to describe the movement of a signal (action potential) down the length of a single neuron. |
| I. You will be able to describe the movement of a signal from one neuron to another. |
| 3. Slow Signals across Long Distances – The Endocrine System | J. You will be able to describe how the secretion of a single hormone from a gland can result in multiple responses in the body. |  |  |
| K. You will be able to compare / contrast the different types of hormone molecules. |
| L. You will be able to explain how various hormones are used in positive and negative feedback loops. |